



SEQUENCE LISTING

<110> Mitchell, William M.
Stratton, Charles W.

<120> Diagnosis and Management of Infection
Caused by Chlamydia

<130> 50150/007002

<140> US 09/709,201

<141> 2000-11-08

<150> US 09/025,521

<151> 1998-02-18

<150> US 08/911,593

<151> 1997-08-14

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 20 25 30
 Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
 35 40 45
 Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Arg Met Gly Tyr
 50 55 60
 Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Gln Thr Asp Val Asn Lys
 65 70 75 80
 Glu Phe Gln Met Gly Ala Lys Pro Thr Thr Ala Thr Gly Asn Ala Ala
 85 90 95
 Ala Pro Ser Thr
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<400> 46
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 20 25 30
 Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
 35 40 45

Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
65 70 75 80
Glu Phe Gln Met Gly Ala Lys Pro Thr Thr Thr Gly Asn Ala Ala
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Ala Pro Ser Thr
100

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<211> 100
<212> PRT
<213> Homo sapiens

<400> 47
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20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
35 40 45
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Arg Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Glu Thr Asp Val Asn Lys
65 70 75 80
Glu Phe His Met Gly Ala Lys Pro Thr Thr Asp Thr Gly Asn Ser Ala
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Ala Pro Leu Thr
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<213> Homo sapiens

<400> 48
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20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
35 40 45
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
65 70 75 80
Glu Phe His Met Gly Asp Lys Pro Thr Ser Thr Thr Gly Asn Ala Thr
85 90 95
Ala Pro Thr Thr
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<210> 49
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<400> 49

Met Lys Lys Leu Leu Lys Ser Val Leu Val Phe Ala Ala Leu Ser Ser
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Ala Ser Ser Leu Gln Ala Leu Pro Val Gly Asn Pro Ala Glu Pro Ser
20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
35 40 45
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
65 70 75 80
Glu Phe His Met Gly Asp Lys Pro Thr Ala Thr Thr Gly Asn Ala Ala
85 90 95
Ala Pro Ser Thr
100

<210> 50

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20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
35 40 45
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
65 70 75 80
Glu Phe Lys Met Gly Glu Ala Leu Ala Gly Ser Thr Gly Asn Thr Thr
85 90 95
Ser Thr Leu Ser Lys
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<213> Homo sapiens

<400> 51

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20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
35 40 45
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Val Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
65 70 75 80
Glu Phe Gln Met Gly Ala Ala Pro Thr Thr Ser Asp Val Ala Ala Gly
85 90 95
Leu Gln Asn Asp Pro Thr Ile

100

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<400> 52
Met Lys Lys Leu Leu Lys Ser Val Leu Val Phe Ala Ala Leu Ser Ser
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20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
35 40 45
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Arg Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
65 70 75 80
Glu Phe Gln Met Gly Ala Ala Pro Thr Thr Arg Asp Val Ala Gly Leu
85 90 95
Glu Lys Asp Pro Val Val
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<400> 53
Met Lys Lys Leu Leu Lys Ser Val Leu Val Phe Ala Ala Leu Ser Ser
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Ala Ser Ser Leu Gln Ala Leu Pro Val Gly Asn Pro Ala Glu Pro Ser
20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
35 40 45
Ala Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Val Met Gly Tyr
50 55 60
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
65 70 75 80
Glu Phe Gln Met Gly Ala Ala Pro Thr Thr Asn Asp Ala Ala Pro Lys
85 90 95
Thr

<210> 54
<211> 102
<212> PRT
<213> Homo sapiens

<400> 54
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20 25 30
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys

	35					40				45							
Asp	Pro	Cys	Thr	Thr	Trp	Cys	Asp	Ala	Ile	Ser	Met	Val	Met	Gly	Tyr		
	50					55					60						
Tyr	Gly	Asp	Phe	Val	Phe	Asp	Arg	Val	Leu	Lys	Thr	Asp	Val	Asn	Lys		
65					70					75				80			
Glu	Phe	Gln	Met	Gly	Ala	Glu	Pro	Thr	Thr	Ser	Asp	Thr	Ala	Gly	Leu		
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Ser	Asn	Asp	Pro	Thr	Thr												
			100														

<210> 55
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<400> 55

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Ala	Ser	Ser	Leu	His	Ala	Leu	Pro	Val	Gly	Asn	Pro	Ala	Glu	Pro	Ser		
			20					25					30				
Leu	Met	Ile	Asp	Gly	Ile	Leu	Trp	Glu	Gly	Phe	Gly	Gly	Asp	Pro	Cys		
		35					40					45					
Asp	Pro	Cys	Thr	Thr	Trp	Cys	Asp	Ala	Ile	Ser	Met	Arg	Met	Gly	Leu		
	50					55					60						
Tyr	Leu	Asp	Phe	Val	Phe	Asp	Arg	Val	Leu	Lys	Thr	Asp	Val	Asn	Lys		
65					70					75				80			
Gln	Phe	Glu	Met	Gly	Ala	Ala	Pro	Thr	Gly	Asp	Ala	Asp	Leu	Thr	Thr		
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Ala	Pro	Thr	Pro														
			100														

<210> 56
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 <212> PRT
 <213> Homo sapiens

<400> 56

Met	Lys	Lys	Leu	Leu	Lys	Ala	Val	Leu	Ala	Phe	Ala	Phe	Ala	Gly	Ser		
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Val	Gly	Ser	Leu	Gln	Ala	Leu	Pro	Val	Gly	Asn	Pro	Ala	Ser	Asp	Ser		
			20					25					30				
Leu	Leu	Ile	Asp	Gly	Thr	Ile	Trp	Glu	Gly	Ala	Ala	Gly	Asp	Pro	Cys		
		35					40					45					
Asp	Pro	Ala	Thr	Thr	Trp	Cys	Asp	Ala	Ile	Ser	Leu	Arg	Ala	Gly	Phe		
	50					55					60						
Tyr	Gly	Asp	Phe	Val	Tyr	Asp	Ile	Val	Leu	Lys	Val	Asp	Ala	Pro	Lys		
65					70					75				80			
Thr	Phe	Ser	Met	Gly	Ala	Lys	Pro	Thr	Thr	Gly	Asn	Gly	Ser	Ala			
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Ala	Ala	Asn															

<210> 57
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<213> Homo sapiens

<400> 57

Cys Thr Ala Arg Glu Asn Pro Ala Tyr Gly Arg His Met Gln Asp Ala
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Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
20 25 30
Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Ser Gly Tyr Leu Lys Gly
35 40 45
Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Asp Asn Glu Asn
50 55 60
His Ala Thr Val Ser Asp Ser Lys Leu Val Pro Asn Met Ser Leu Asp
65 70 75 80
Gln Ser Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Ala
85 90 95
Gly Ala Arg Ala
100

<210> 58

<211> 65

<212> PRT

<213> Homo sapiens

<400> 58

Leu Thr Ala Arg Glu Asn Pro Ala Tyr Gly Arg His Met Gln Asp Ala
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Glu Met Phe Thr Asn Cys Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
20 25 30
Phe Asp Val Phe Cys Thr Leu Gly Ala Ser Ser Gly Tyr Leu Lys Gly
35 40 45
Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Asn Asn Glu Asn
50 55 60
Gln
65

<210> 59

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<213> Homo sapiens

<400> 59

Cys Thr Ala Arg Glu Asn Pro Ala Tyr Gly Arg His Met Gln Asp Ala
1 5 10 15
Glu Met Phe Thr Asn Cys Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
20 25 30
Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Ser Gly Tyr Leu Lys Gly
35 40 45
Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Asp Asn Glu Asn
50 55 60
Gln Lys Thr Val Lys Ala Glu Ser Val Pro Asn Met Ser Phe Asp Gln
65 70 75 80
Ser Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Val Gly
85 90 95
Ala Arg Ala Thr Lys Val Ser Asn Gly Thr Phe Val Pro Asn Met Ser
100 105 110
Leu Asp Gln Ser Val Val Glu Leu Tyr Thr Asp Thr Ala Phe Ala Trp

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Ser Val Gly Ala Arg Ala
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120

125

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<213> Homo sapiens

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20 25 30
Phe Asp Val Phe Cys Thr Leu Gly Ala Ser Ser Gly Tyr Leu Lys Gly
35 40 45
Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Asp Asn Glu Asn
50 55 60
Gln Ser Thr Val Lys Thr Asn Ser Val Pro Asn Met Ser Leu Asp Gln
65 70 75 80
Ser Val Val Glu Leu Tyr Thr Asp Thr Ala Phe Ser Trp Ser Val Gly
85 90 95
Ala Arg Ala

<210> 61
<211> 99
<212> PRT
<213> Homo sapiens

<400> 61
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Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
20 25 30
Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Ser Gly Tyr Leu Lys Gly
35 40 45
Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Asp Asn Glu Asn
50 55 60
Gln Ser Thr Val Lys Lys Asp Ala Val Pro Asn Met Ser Phe Asp Gln
65 70 75 80
Ser Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Val Gly
85 90 95
Ala Arg Ala

<210> 62
<211> 99
<212> PRT
<213> Homo sapiens

<400> 62
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Glu Met Phe Thr Asn Cys Ala Tyr Thr Ala Leu Ile Asn Trp Asp Arg

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Phe	Asp	Val	Phe	Cys	Thr	Leu	Gly	Ala	Thr	Ser	Gly	Tyr	Leu	Lys	Gly
	35						40					45			
Asn	Ser	Ala	Ser	Phe	Asn	Leu	Val	Gly	Leu	Phe	Gly	Asp	Gly	Val	Asn
	50					55					60				
Ala	Thr	Lys	Pro	Ala	Ala	Asp	Ser	Ile	Pro	Asn	Val	Gln	Leu	Asn	Gln
65					70					75					80
Ser	Val	Val	Glu	Leu	Tyr	Thr	Asp	Thr	Thr	Phe	Ala	Trp	Ser	Val	Gly
				85					90					95	
Ala	Arg	Ala													

<210> 63
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 63

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Glu	Met	Phe	Thr	Asn	Ala	Ala	Tyr	Met	Ala	Leu	Ile	Asn	Trp	Asp	Arg
		20					25					30			
Phe	Asp	Val	Phe	Cys	Thr	Leu	Gly	Ala	Thr	Thr	Gly	Tyr	Leu	Lys	Gly
	35						40					45			
Asn	Ser	Ala	Ser	Phe	Asn	Leu	Val	Gly	Leu	Phe	Gly	Thr	Lys	Thr	Gln
	50					55					60				
Ser	Ser	Ser	Phe	Asn	Thr	Ala	Lys	Leu	Ile	Pro	Asn	Thr	Ala	Leu	Asp
65					70					75					80
Gln	Ser	Val	Val	Glu	Leu	Tyr	Ile	Asn	Thr	Thr	Phe	Ala	Trp	Ser	Val
				85					90					95	
Gly	Ala	Arg	Ala												
			100												

<210> 64
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<400> 64

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Glu	Met	Phe	Thr	Asn	Ala	Ala	Tyr	Met	Ala	Leu	Ile	Asn	Trp	Asp	Arg
		20					25					30			
Phe	Asp	Val	Phe	Cys	Thr	Leu	Gly	Ala	Thr	Thr	Gly	Tyr	Leu	Lys	Gly
	35						40					45			
Asn	Ser	Ala	Ser	Phe	Asn	Leu	Val	Gly	Leu	Phe	Gly	Thr	Lys	Thr	Gln
	50					55					60				
Ser	Ser	Gly	Phe	Asp	Thr	Ala	Asn	Ile	Val	Pro	Asn	Thr	Ala	Leu	Asn
65					70					75					80
Gln	Ala	Val	Val	Glu	Leu	Tyr	Thr	Asp	Thr	Thr	Phe	Ala	Trp	Ser	Val
				85					90					95	
Gly	Ala	Arg	Ala												
			100												

<210> 65

<211> 100
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<400> 65
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 Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
 20 25 30
 Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Thr Gly Tyr Leu Lys Gly
 35 40 45
 Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Thr Lys Thr Lys
 50 55 60
 Ser Ser Asp Phe Asn Thr Ala Lys Leu Val Pro Asn Ile Ala Leu Asn
 65 70 75 80
 Arg Ala Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Val
 85 90 95
 Gly Ala Arg Ala
 100

<210> 66
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 66
 Asn Val Ala Arg Pro Asn Pro Ala Tyr Gly Lys His Met Gln Asp Ala
 1 5 10 15
 Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
 20 25 30
 Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Thr Gly Tyr Leu Lys Gly
 35 40 45
 Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Thr Lys Thr Gln
 50 55 60
 Ser Thr Asn Phe Asn Thr Ala Lys Leu Val Pro Asn Thr Ala Leu Asn
 65 70 75 80
 Gln Ala Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Val
 85 90 95
 Gly Ala Arg Ala
 100

<210> 67
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 67
 Ala Ser Arg Glu Asn Pro Ala Tyr Gly Lys His Met Gln Asp Ala Glu
 1 5 10 15
 Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg Phe
 20 25 30
 Asp Val Phe Cys Thr Leu Gly Ala Thr Ser Gly Tyr Leu Lys Gly Asn
 35 40 45
 Ser Ala Ala Phe Asn Leu Val Gly Leu Phe Gly Arg Asp Glu Thr Ala
 50 55 60
 Val Ala Ala Asp Asp Ile Pro Asn Val Ser Leu Ser Gln Ala Val Val

65		70		75		80									
Glu	Leu	Tyr	Thr	Asp	Thr	Ala	Phe	Ala	Trp	Ser	Val	Gly	Ala	Arg	Ala
				85					90					95	

<210> 68
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 68

Tyr	Thr	Thr	Ala	Val	Asp	Arg	Pro	Asn	Pro	Ala	Tyr	Asn	Lys	His	Leu
1				5					10					15	
His	Asp	Ala	Glu	Trp	Phe	Thr	Asn	Ala	Gly	Ile	Phe	Ala	Leu	Ile	Asn
			20					25					30		
Trp	Asp	Arg	Phe	Asp	Val	Phe	Cys	Thr	Leu	Gly	Ala	Ser	Asn	Gly	Ile
		35					40					45			
Arg	Lys	Gly	Asn	Ser	Thr	Ala	Phe	Asn	Leu	Val	Gly	Leu	Phe	Gly	Val
	50					55				60					
Lys	Gly	Thr	Thr	Val	Asn	Ala	Asn	Glu	Leu	Pro	Asn	Val	Ser	Leu	Ser
65					70				75					80	
Asn	Gly	Val	Val	Glu	Leu	Tyr	Thr	Asp	Thr	Ser	Phe	Ser	Trp	Ser	Val
				85					90					95	
Gly	Ala	Arg	Ala												
			100												

<210> 69
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 69

Ala	Leu	Trp	Glu	Cys	Gly	Cys	Ala	Thr	Leu	Gly	Ala	Ser	Phe	Gln	Tyr
1				5					10					15	
Ala	Gln	Ser	Lys	Pro	Lys	Val	Glu	Glu	Leu	Asn	Val	Leu	Cys	Asn	Ala
			20					25					30		
Ala	Glu	Phe	Thr	Ile	Asn	Lys	Pro	Lys	Gly	Tyr	Val	Gly	Gln	Glu	Phe
		35					40					45			
Pro	Leu	Asp	Leu	Lys	Ala	Gly	Thr	Asp	Gly	Val	Thr	Gly	Thr	Lys	Asp
	50					55				60					
Ala	Ser	Ile	Asp	Tyr	His	Glu	Trp	Gln	Ala	Ser	Leu	Ala	Leu	Ser	Tyr
65					70				75					80	
Arg	Leu	Asn	Met	Phe	Thr	Pro	Tyr	Ile	Gly	Val	Lys	Trp	Ser	Arg	Ala
				85					90					95	
Ser	Phe	Asp	Ala												
			100												

<210> 70
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 70

Ala	Leu	Trp	Glu	Cys	Gly	Cys	Ala	Thr	Leu	Gly	Ala	Ser	Phe	Gln	Tyr
1				5					10					15	
Ala	Gln	Ser	Lys	Pro	Lys	Val	Glu	Glu	Leu	Asn	Val	Leu	Cys	Asn	Ala

20 25 30
 Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Leu
 35 40 45
 Pro Leu Asp Leu Thr Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
 65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
 85 90 95
 Ser Phe Asp Ala
 100

<210> 71
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 71
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
 1 5 10 15
 Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
 20 25 30
 Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Phe
 35 40 45
 Pro Leu Asp Leu Thr Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
 65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
 85 90 95
 Ser Phe Asp Ala
 100

<210> 72
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 72
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
 1 5 10 15
 Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
 20 25 30
 Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Gln Glu Phe
 35 40 45
 Pro Leu Ala Leu Ile Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
 65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
 85 90 95
 Ser Phe Asp Ala
 100

<210> 73

<211> 100
 <212> PRT
 <213> Homo sapiens

<400> 73
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
 1 5 10 15
 Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
 20 25 30
 Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Phe
 35 40 45
 Pro Leu Asp Leu Thr Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
 65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
 85 90 95
 Ser Phe Asp Ala
 100

<210> 74
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 74
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
 1 5 10 15
 Ala Gln Ser Lys Pro Lys Ile Glu Glu Leu Asn Val Leu Cys Asn Ala
 20 25 30
 Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Phe
 35 40 45
 Pro Leu Asp Leu Thr Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ser Leu Ser Tyr
 65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
 85 90 95
 Ser Phe Asp Ser
 100

<210> 75
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 75
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
 1 5 10 15
 Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
 20 25 30
 Ser Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Ala Glu Phe
 35 40 45
 Pro Leu Asn Ile Thr Ala Gly Thr Glu Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr

65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Val
 85 90 95
 Ser Phe Asp Ala
 100

<210> 76
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 76
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
 1 5 10 15
 Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
 20 25 30
 Ser Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Ala Glu Phe
 35 40 45
 Pro Leu Asp Ile Thr Ala Gly Thr Glu Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
 65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Val
 85 90 95
 Ser Phe Asp Ala
 100

<210> 77
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 77
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
 1 5 10 15
 Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
 20 25 30
 Ser Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Ala Glu Phe
 35 40 45
 Pro Leu Asp Ile Thr Ala Gly Thr Glu Ala Ala Thr Gly Thr Lys Asp
 50 55 60
 Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
 65 70 75 80
 Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Val
 85 90 95
 Ser Phe Asp Ala
 100

<210> 78
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 78
 Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr

1	5	10	15
Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asp Ala			
20	25	30	
Ser Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Ala Glu Phe			
35	40	45	
Pro Leu Asp Ile Thr Ala Gly Thr Glu Ala Ala Thr Gly Thr Lys Asp			
50	55	60	
Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr			
65	70	75	80
Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Val			
85	90	95	
Ser Phe Asp Ala			
100			

<210> 79
 <211> 100
 <212> PRT
 <213> Homo sapiens

B1

<400> 79
Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
1 5 10 15
Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
20 25 30
Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Gln Glu Phe
35 40 45
Pro Leu Asn Ile Lys Ala Gly Thr Val Ser Ala Thr Asp Thr Lys Asp
50 55 60
Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
65 70 75 80
Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
85 90 95
Ser Phe Asp Ala
100

<210> 80
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 80
Gly Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Glu Ser Phe Gln Tyr
1 5 10 15
Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Ile Cys Asn Val
20 25 30
Ser Gln Phe Ser Val Asn Lys Pro Lys Gly Tyr Lys Gly Val Ala Phe
35 40 45
Pro Leu Pro Thr Asp Ala Gly Val Ala Thr Ala Thr Gly Thr Lys Ser
50 55 60
Ala Thr Ile Asn Tyr His Glu Trp Gln Val Gly Ala Ser Leu Ser Tyr
65 70 75 80
Arg Leu Asn Ser Leu Val Pro Tyr Ile Gly Val Gln Trp Ser Arg Ala
85 90 95
Thr Phe Asp Ala
100

<210> 81
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 81
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Ser Ala Thr Thr Val Phe Asp
 1 5 10 15
 Val Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Gly Asp Val Lys Ala
 20 25 30
 Ser Ala Glu Gly Gln Leu Gly Asp Thr Met Gln Ile Val Ser Leu Gln
 35 40 45
 Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly Thr
 50 55 60
 Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu
 65 70 75 80
 Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90

<210> 82
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 82
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Ser Ala Glu Thr Ile Phe Asp
 1 5 10 15
 Val Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Gly Asp Val Lys Thr
 20 25 30
 Ser Ala Glu Gly Gln Leu Gly Asp Thr Met Gln Ile Val Ser Leu Gln
 35 40 45
 Leu Asn Met Lys Ser Arg Lys Cys Gly Ile Ala Val Gly Thr Thr Ile
 50 55 60
 Val Asp Ala Asp Lys Tyr Ala Ile Thr Val Glu Thr Arg Leu Ile Asp
 65 70 75 80
 Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90

<210> 83
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 83
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Ser Ala Thr Ala Ile Phe Asp
 1 5 10 15
 Thr Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Gly Asp Val Lys Thr
 20 25 30
 Gly Thr Glu Gly Gln Leu Gly Asp Thr Met Gln Ile Val Ser Leu Gln
 35 40 45
 Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly Thr
 50 55 60
 Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu
 65 70 75 80
 Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90

<210> 84
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 84
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Ser Ala Thr Ala Ile Phe Asp
 1 5 10 15
 Thr Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Gly Asp Val Lys Ala
 20 25 30
 Ser Ala Glu Gly Gln Leu Gly Asp Thr Met Gln Ile Val Ser Leu Gln
 35 40 45
 Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly Thr
 50 55 60
 Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu
 65 70 75 80
 Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90

B1
 <210> 85
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 85
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Leu Ala Thr Ala Ile Phe Asp
 1 5 10 15
 Thr Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Gly Asp Glu Lys Ala
 20 25 30
 Asn Ala Glu Gly Gln Leu Gly Asp Thr Met Gln Ile Val Ser Leu Gln
 35 40 45
 Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly Thr
 50 55 60
 Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu
 65 70 75 80
 Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90

<210> 86
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 86
 Asp Thr Ile Arg Ile Ala Gln Pro Arg Leu Val Thr Pro Val Val Asp
 1 5 10 15
 Ile Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Cys Asp Ser Lys Ala
 20 25 30
 Gly Asn Thr Glu Gly Gln Ile Ser Asp Thr Met Gln Ile Val Ser Leu
 35 40 45
 Gln Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly
 50 55 60
 Thr Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg
 65 70 75 80
 Leu Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe

85

90

95

<210> 87
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 87
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Leu Ala Glu Ala Ile Leu Asp
 1 5 10 15
 Val Thr Thr Leu Asn Arg Thr Thr Ala Gly Lys Gly Ser Val Val Ser
 20 25 30
 Ala Gly Thr Asp Asn Glu Leu Ala Asp Thr Met Gln Ile Val Ser Leu
 35 40 45
 Gln Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly
 50 55 60
 Thr Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Ala Arg
 65 70 75 80
 Leu Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90 95

<210> 88
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 88
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Leu Ala Lys Pro Val Leu Asp
 1 5 10 15
 Thr Thr Thr Leu Asn Pro Thr Ile Ala Gly Lys Gly Thr Val Val Ser
 20 25 30
 Ser Ala Glu Asn Glu Leu Ala Asp Thr Met Gln Ile Val Ser Leu Gln
 35 40 45
 Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly Thr
 50 55 60
 Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu
 65 70 75 80
 Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90

<210> 89
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 89
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Leu Ala Glu Ala Ile Leu Asp
 1 5 10 15
 Val Thr Thr Leu Asn Pro Thr Ile Ala Gly Lys Gly Thr Val Val Ala
 20 25 30
 Ser Gly Ser Asp Asn Asp Leu Ala Asp Thr Met Gln Ile Val Ser Leu
 35 40 45
 Gln Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly
 50 55 60
 Thr Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg

65 70 75 80
 Leu Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg
 85 90

<210> 90
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 90
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Leu Ala Glu Ala Val Leu Asp
 1 5 10 15
 Val Thr Thr Leu Asn Pro Thr Ile Ala Gly Lys Gly Ser Val Val Ala
 20 25 30
 Ser Gly Ser Glu Asn Glu Leu Ala Asp Thr Met Gln Ile Val Ser Leu
 35 40 45
 Gln Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly
 50 55 60
 Thr Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg
 65 70 75 80
 Leu Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90 95

<210> 91
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 91
 Asp Thr Ile Arg Ile Ala Gln Pro Lys Leu Glu Thr Ser Ile Leu Lys
 1 5 10 15
 Met Thr Thr Trp Asn Pro Thr Ile Ser Gly Ser Gly Ile Asp Val Asp
 20 25 30
 Thr Lys Ile Thr Asp Thr Leu Gln Ile Val Ser Leu Gln Leu Asn Lys
 35 40 45
 Met Lys Ser Arg Lys Ser Cys Leu Ile Ala Ile Gly Thr Thr Ile Val
 50 55 60
 Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu Ile Asp Glu
 65 70 75 80
 Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
 85 90

<210> 92
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 92
 Asp Asn Ile Arg Ile Ala Gln Pro Lys Leu Pro Thr Ala Val Leu Asn
 1 5 10 15
 Leu Thr Ala Trp Asn Pro Ser Leu Leu Gly Asn Ala Thr Ala Leu Ser
 20 25 30
 Thr Thr Asp Ser Phe Ser Asp Phe Met Gln Ile Val Ser Cys Gln Ile
 35 40 45
 Asn Lys Phe Lys Ser Arg Lys Ala Cys Val Thr Ala Val Ala Thr Leu

50 55 60
 Ile Val Asp Ala Asp Lys Trp Ser Leu Thr Ala Glu Ala Arg Leu Asn
 65 70 75 80
 Asp Glu Arg Ala Ala His Ser Gly Ala Gln Phe Arg Phe
 85 90

<210> 93
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 93
 Cys Thr Gly Ser Ala Ala Ala Asn Tyr Thr Thr Ala Val Asp Arg Pro
 1 5 10 15
 Asn

<210> 94
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 94
 Cys Thr Gly Asp Ala Asp Leu Thr Thr Ala Pro Thr Pro Ala Ser Arg
 1 5 10 15
 Glu Asn

<210> 95
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 95
 Cys Thr Thr Ala Thr Gly Asn Ala Ala Ala Pro Ser Thr Cys Thr Ala
 1 5 10 15
 Arg Glu Asn

<210> 96
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 96
 Cys Ala Ser Gly Thr Ala Ser Asn Thr Thr Val Ala Ala Asp Arg Ser
 1 5 10 15
 Asn

<210> 97
 <211> 15
 <212> PRT

<213> Homo sapiens

<400> 97

Cys Phe Gly Val Lys Gly Thr Thr Val Asn Ala Asn Glu Lys Pro
1 5 10 15

<210> 98

<211> 15

<212> PRT

<213> Homo sapiens

<400> 98

Cys Phe Gly Arg Asp Glu Thr Ala Val Ala Ala Asp Asp Ile Pro
1 5 10 15

<210> 99

<211> 18

<212> PRT

<213> Homo sapiens

<400> 99

Cys Phe Gly Asp Asn Glu Asn His Ala Thr Val Ser Asp Ser Lys Leu
1 5 10 15
Val Pro

<210> 100

<211> 14

<212> PRT

<213> Homo sapiens

<400> 100

Cys Ile Gly Leu Ala Gly Thr Asp Phe Ala Asn Gln Arg Pro
1 5 10

<210> 101

<211> 13

<212> PRT

<213> Homo sapiens

<400> 101

Cys Gln Ile Asn Lys Phe Lys Ser Arg Lys Ala Cys Gly
1 5 10

<210> 102

<211> 13

<212> PRT

<213> Homo sapiens

<400> 102

Cys Gln Ile Asn Lys Met Lys Ser Arg Phe Ala Cys Gly
1 5 10

<210> 103
<211> 13
<212> PRT
<213> Homo sapiens

<400> 103
Cys Gln Leu Asn Lys Met Lys Ser Arg Lys Ala Cys Gly
1 5 10

<210> 104
<211> 13
<212> PRT
<213> Homo sapiens

<400> 104
Cys Gln Ile Asn Lys Phe Lys Ser Arg Phe Ala Cys Gly
1 5 10

<210> 105
<211> 38
<212> DNA
<213> Homo sapiens

<400> 105
atgaaaaaac tcttaaagtc ggcgttatta tccgccgc 38

<210> 106
<211> 44
<212> DNA
<213> Homo sapiens

<400> 106
atgaaaaaac tcttgaaatc ggtattagtg tttgccgctt tgag 44

<210> 107
<211> 44
<212> DNA
<213> Homo sapiens

<400> 107
atgaaaaaac tcttaaaatc ggcattatta tttgccgctg cggg 44

<210> 108
<211> 44
<212> DNA
<213> Homo sapiens

<400> 108
atgaaaaaac tcttgaaatc ggcattattg tttgccgcta cggg 44

<210> 109
<211> 50
<212> DNA
<213> Homo sapiens

<400> 109

atgaaaaaac tcttgaaatc ggtattagca tttgccgttt tgggttctgc 50

<210> 110

<211> 40

<212> DNA

<213> Homo sapiens

<400> 110

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<210> 111

<211> 35

<212> DNA

<213> Homo sapiens

<400> 111

ttagaacgcg aattgtgcat ttacgtgagc agctc 35

<210> 112

<211> 43

<212> DNA

<213> Homo sapiens

<400> 112

ttagaatctg aattgagcat taatgtgagc agctctttcg tcg 43

<210> 113

<211> 51

<212> DNA

<213> Homo sapiens

<400> 113

ttagaatctg aattgaccat tcatgtgagc agctctttca ttgattaagc g 51

<210> 114

<211> 42

<212> DNA

<213> Homo sapiens

<400> 114

ttagaaacgg aactgagcat ttacgtgagc tgctctttca tc 42

B1
Concludes